

## § 162.161-6

## 46 CFR Ch. I (10-1-12 Edition)

162.161-10 and approved by the Coast Guard under 46 CFR 159.005-13.

(b) The manual must include:

(1) The design information as required in the Design Manual as detailed in UL 2166 (incorporated by reference, see §162.161-2) for halocarbon systems and UL 2127 (incorporated by reference, see §162.161-2) for inert gas systems;

(2) Installation, operation, and maintenance instructions as required in the Installation, Operation, and Maintenance Instruction Manual detailed in UL 2166 for halocarbon systems and UL 2127 for inert gas systems;

(3) Identification of the computer program listed or approved by the independent laboratory for designing the system;

(4) A sample diagram and calculation for a marine system for a large inspected vessel with several spaces to be protected by the same system;

(5) The approval number issued by the Coast Guard for the system under 46 CFR 159.005-13;

(6) A parts list with manufacturer's part numbers and a description of each system component;

(7) An index of chapters; and

(8) Issue and revision dates for each page.

(c) The manufacturer of each system must provide at least one copy of the system manual with each system.

### § 162.161-6 Tests for approval.

Prior to approval by an independent laboratory each system must:

(a) Satisfy the test method of MSC/Circ. 848 as amended by MSC.1/Circ. 1267 (both incorporated by reference, see §162.161-2), except that:

(1) The Fire Type A (Tell tale) test must be conducted when the charged system cylinders have been conditioned for 24 hours at 32 °F or at the expected service temperature, if lower than 32 °F.

(2) [Reserved]

(b) Satisfy the following test requirements as indicated in UL 2166 (incorporated by reference, see §162.161-2) for halocarbon systems or UL 2127 for inert gas systems (incorporated by reference, see §162.161-2):

(1) Nozzle distribution;

(2) Flow calculation method verification to determine that the manufacturer's calculation method accurately predicts the discharge time, nozzle pressure, and distribution of the extinguishing agent;

(3) Salt spray corrosion resistance for marine-type systems;

(4) Vibration resistance of installed components for marine-type systems; and

(5) Any additional tests contained in UL 2166 for halocarbon systems or UL 2127 for inert gas systems, as required for listing by the independent laboratory.

(c) Equivalent length of installed components must be identified and included in the test report in accordance with UL 2166 (incorporated by reference, see §162.161-2) for halocarbon systems or UL 2127 (incorporated by reference, see §162.161-2) for inert gas systems.

### § 162.161-7 Inspections at production.

(a) The system must be inspected in accordance with this section and 46 CFR 159.007-1 through 159.007-13, and tested using any additional tests that the Commandant (CG-5214) may deem necessary to maintain control of quality and to ensure compliance with this subpart.

(b) The manufacturer must:

(1) Institute procedures to maintain control over the materials used, over the manufacturing of the systems, and over the finished systems;

(2) Admit the independent laboratory inspector and any representative of the Coast Guard to any place where work is being done on systems and any place where parts or complete systems are stored;

(3) Allow the independent laboratory inspector and any representative of the Coast Guard to take samples of systems for tests prescribed by this subpart; and

(4) Conduct a leakage test on each system cylinder-valve assembly in accordance with subsections 57.1 through 57.4.2 of UL 2166 (incorporated by reference, see §162.161-2) for halocarbon systems or subsection 55.4 of UL 2127 (incorporated by reference, see §162.161-2) for inert gas systems.